

Nuclear gamma resonance of Sn119 and Fe57 in franckeite and cylindrite.

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Abstract

The NGR data indicate that the coordination symmetry and valence states of tin ions are the same in franckeite and cylindrite, but that cylindrite contains more Sn²⁺. Also Fe is essential to both minerals. Apparently one structural layer in both minerals contains Fe ions combined with disulphide groups S-S²⁻, and the other layer is composed of FeS₆ octahedra. -K.A.R.
